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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/603,418	06/24/2003	Sunichi Sato	2271/53467-A1	9699	
23432 7590 06/14/2007 COOPER & DUNHAM, LLP			EXAM	EXAMINER	
1185 AVENU	E OF THE AMERICAS		SCHILLINGER, LAURA M		
NEW YORK, NY 10036			ART UNIT	PAPER NUMBER	
			2813		
	•		MAIL DATE	DELIVERY MODE	
	•		06/14/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application No.	Applicant(s)			
		10/603,418	SATO, SUNICHI			
		Examiner	Art Unit			
		Laura M. Schillinger	2813			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. or period for reply is specified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION The state of the	DN. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133)			
Status	·					
1)	Responsive to communication(s) filed on <u>02 M</u>	ay 2007.				
	his action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5) □ 6) ⊠ 7) □ 8) □ Applicati 9) □	Claim(s) 22,38 and 60-69 is/are pending in the 4a) Of the above claim(s) 60-69 is/are withdraw Claim(s) is/are allowed. Claim(s) 22 and 38 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceeded a correct that any objection to the Replacement drawing sheet(s) including the correct.	r election requirement. r. epted or b) □ objected to by the drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	ınder 35 U.S.C. § 119					
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applica ity documents have been received in Proceims (PCT Rule 17.2(a)).	ation No ved in this National Stage			
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 5/2/07.	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:				

DETAILED ACTION

Election/Restrictions

Newly submitted claims 60-69 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: Applicant's newly added claims are directed to an independent and distinct species from that of the originally elected claims 22 and 38.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 60-69 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 22 is rejected under 35 U.S.C. 102(b) as being anticipated by Ohkouchi et al (Proceedings of 12th Symposium on Alloy Semiconductor Physics and Electronics, 1993, pages 337-340: Applicant's Admitted Prior Art described on Col.2, lines: 3-10 in US 5904549).

In reference to claim 22, Ohkouchi (Applicant's Admitted Prior Art) teaches a method comprising:

Forming an alloy semiconductor by an MOCVD method at a pressure of at least that of convention low pressure MOCVD (Col.2, lines: 5-10), using a nitrogen containing organic compound as a source material for nitrogen, wherein the nitrogen containing organic compound is selected from the group consisting of monomehthylhydrazine, dimethylhydrazine and tertiary butylamine (Col.2, lines: 5-10 (DMHy), and using a source material for As, wherein the III-V alloy semiconductor comprises at least Ga, In, N and As (Col.2, lines: 5-10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohkouchi et al (Proceedings of 12th Symposium on Alloy Semiconductor Physics and Electronics, 1993, pages 337-340.

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In reference to claim 38, Ohkouchi fails to explicitly teach using a horizontal LP MOVPE reactor apparatus as claimed by the Applicant; however such apparatuses are well known in the art of semiconductors and would be considered to be an obvious choice among skilled artisans.

Response to Arguments

Applicant's arguments filed 6/27/05 have been fully considered but they are not persuasive. Applicant argues that Ohkouchi fails to teach a III-V alloy containing Ga and N-however this is not persuasive; the GaAsN anticipates this element of Applicant's claim.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

06/08/07

Laura M Schillinger Primary Examiner Art Unit 2813